

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for Extension of STA to Utilize a 9.2m Ka-band Antenna at Intelsat's Riverside Teleport for EchoStar-21 LEOP

I. Applicant

Name:	Intelsat License LLC	Phone Number:	703-559-7848
DBA Name:		Fax Number:	703-559-8539
Street:	c/o Intelsat Corporation 7900 Tysons One Place	E-Mail:	susan.crandall@intelsat.com
City:	McLean	State:	VA
Country:	USA	Zipcode:	22102 -5972
Attention:	Susan H. Crandall		



File # SES-STA-20170113-00053 "with condition"

Call Sign N/A Grant Date 02/03/2017
(or other identifier)

Term Dates
From 02/05/2017 To 03/07/2017

Approved: Paul E. Blair

Applicant: Intelsat License LLC
Call Sign: N/A
File No.: SES-STA-20170113-00053
Special Temporary Authority (STA)

Intelsat License LLC- Inc. is granted a special temporary authority (STA) for an additional 30 days, commencing February 5, 2017 to use its Riverside, CA earth station to provide launch and early orbit phase ("LEOP") services for the EchoStar-21 satellite as it proceeds to its 10.25° E.L. orbital location on center frequencies 27.997 GHz and 27.999 GHz (LHCP) (Earth-to-space) and 18.697 GHz and 18.699 GHz (RHCP) (space-to-Earth) under the following conditions:

1. Operations will not exceed the operational power levels and parameters requested and coordinated.
2. The LEOP operations must be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path. All operators of satellites in that path will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs. Currently the 24X7 contact information for the EchoStar-21 satellite LEOP mission is as follows: Ph.:(703) 559-7701 –East Coast operations Center (primary); (310) 525-5591 –West Coast Operations Center (back-up). Requests to speak with Harry Burnham or Kevin Bell.
3. Operations, shall not cause harmful interference to, and shall not claim protection from interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
4. Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measure must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.
5. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at Intelsat Inc's risk.

This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective upon release.

30 days


"With condition"

File# SES-STA-20170113-00053

Call Sign NA Grant Date 02/03/2017
(or other identifier)

Term Dates
From 02/05/2017 To: 03/07/2017

Approved: [Signature]



The stamp is a red circular seal of the Federal Communications Commission (FCC) with the text 'FEDERAL COMMUNICATIONS COMMISSION' around the perimeter. Below the seal, the word 'GRANTED' is printed in large, bold, red letters, and 'International Bureau' is printed in smaller red letters below that.



INTELSAT.

Envision. Connect. Transform.

January 13, 2017

Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

Re: Request for Extension of Special Temporary Authority
9.2m Ka-band Antenna, Riverside, California

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests an additional 30 days of Special Temporary Authority (“STA”)¹ previously granted Intelsat to utilize its 9.2m Ka-band antenna located at its Riverside, California teleport to provide launch and early orbit phase (“LEOP”) services for the Echostar-21 satellite.² The satellite’s launch has been delayed and currently is scheduled for February 5, 2017.³ The LEOP period is expected to last approximately 10 days.⁴

The Echostar-21 LEOP operations will be performed at the following frequencies: 27.997 GHz and 27.999 GHz (LHCP) in the uplink, and 18.697 GHz and 18.699 GHz in the downlink (RHCP). The LEOP operations will be coordinated with all operators of satellites that use the same frequency bands and are in the LEOP path.⁵ All operators of satellites in that path will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs.

The 24x7 contact information for the Echostar-21 LEOP mission is as follows:

Ph.: (703) 559-7701 – East Coast Operations Center (primary)
(310) 525-5591 – West Coast Operations Center (back-up)

Request to speak with Harry Burnham or Kevin Bell.

¹ Intelsat has filed its STA request, an FCC Form 159, a \$200.00 filing fee, and this supporting letter electronically via the International Bureau’s Filing System (“IBFS”).

² See *Satellite Communications Services Information; Actions Taken*, Report No. SES-01918, File No. SES-STA-20161118-00896 (Jan. 4, 2017) (Public Notice).

³ The in-orbit testing and the permanent orbital location of Echostar-21, which Intelsat understands is licensed by France, will be 10.25° E.L.

⁴ Intelsat is seeking authority for an additional 30 days to accommodate a possible further launch delay.

⁵ SSL, the manager of the Echostar-21 LEOP mission, will handle the coordination.

Ms. Marlene H. Dortch
January 13, 2017
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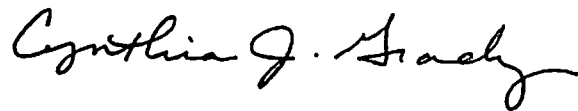
In further support of this extension request, Intelsat incorporates by reference Exhibits A and B, which contain technical information that demonstrates that the operation of the earth station will be compatible with its electromagnetic environment and will not cause harmful interference into any lawfully operating terrestrial facility, and a waiver request.

Finally, Intelsat clarifies that during the Echostar-21 mission, SSL will serve as the mission manager. SSL will build and send the commands to the Intelsat antenna, which will process and execute the commands. Telemetry received by Intelsat will be forwarded to SSL. Intelsat will perform the ranging sessions by sending a tone to the spacecraft periodically. Intelsat will remain in control of the baseband unit, RF equipment, and antenna.

Grant of this STA extension request will allow Intelsat to help launch the Echostar-21 satellite. This, in turn, will help provide services at the 10.25° E.L. orbital location and thereby promotes the public interest.

Please direct any questions regarding this STA request to the undersigned at (703) 559-6949.

Respectfully submitted,



Cynthia J. Grady
Regulatory Counsel
Intelsat Corporation

cc: Paul Blais

2. Contact	
Name: Cynthia J. Grady	Phone Number: 703-559-6949
Company: Intelsat Corporation	Fax Number: 703-559-8539
Street: 7900 Tysons One Place	E-Mail: cynthia.grady@intelsat.com
City: McLean	State: VA
Country: USA	Zipcode: 22102 -5972
Attention:	Relationship: Legal Counsel
(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)	
3. Reference File Number or Submission ID	
4a. Is a fee submitted with this application?	
<input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114). <input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee <input type="radio"/> Other (please explain):	
4b. Fee Classification CGX - Fixed Satellite Transmit/Receive Earth Station	
5. Type Request	
<input type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input checked="" type="radio"/> Other	
6. Requested Use Prior Date	
7. City Nuevo	8. Latitude (dd mm ss.s h) 33 47 42.7 N

9. State CA	10. Longitude (dd mm ss.s h) 117 5 22.5 W
11. Please supply any need attachments. Attachment 1: STA Request Attachment 2: Attachment 3:	
12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">Intelsat License LLC herein requests an additional 30 days of Special Temporary Authority previously granted Intelsat to utilize its 9.2m Ka-band antenna located at its Riverside, California teleport to provide launch and early orbit phase services for the Echostar-21 satellite. The launch of the satellite has been delayed and currently is scheduled for</div>	
13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application"; for these purposes. <input checked="" type="radio"/> Yes <input type="radio"/> No	
14. Name of Person Signing Cynthia J. Grady	15. Title of Person Signing Regulatory Counsel, Intelsat Corporation
WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).	

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12. Description

Intelsat License LLC herein requests an additional 30 days of Special Temporary Authority previously granted Intelsat to utilize its 9.2m Ka-band antenna located at its Riverside, California teleport to provide launch and early orbit phase services for the Echostar-21 satellite. The launch of the satellite has been delayed and currently is scheduled for February 5, 2017.